## INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/00119

A. CLASS	SIFICATION OF SUBJECT MATTER		
∮IPC(† €	C23D 17, 00		
83 - 1141 711	134/38 5 International Patent Classification (IPC) or to both national classification and IPC		
	DS SEARCHED		
Minimum do	eumentation searched classification system followed by classification symbols)		
U.S. : 5	510/201		
Documentati searched	ion searched other than minimum documentation to the extent that such document	its are i	ncluded in the fields
	lata base consulted carring the international search (name of data base and, where pra	ıcticable	, search terms used)
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EAST-US	SPATFULL, JAPIO, DERWENT, CAS-REGISTRY, IBMTDB, PGPUB, CAPLUS		
ı			
C. DOCU	UMENTS CONSIDERED TO BE RELEVANT	_	
Category*	Citation of document, with indication, where appropriate, of the relevant passag	ţes	Relevant to claim No.
Х	US 3.553,144 A (MURPHY) 05 January 1971, col. 1, lines 15 col. 2, lines 43-44, col. 3, lines 30-40, col. 3, lines 60-65, col lines 70-72, col. 5, lines 65-68.	5-20, ol. 4,	1-3, 5-10, 21-22, 24-27
Υ	col. 1. lines 35-40, col. 2, lines 40-45, col. 3, lines 60-65, col. lines 3-5, 59-60, and 70-75.	ol. 4,	11-20, 28-29, 32- 34
X	US 5.006,279 A (GROBBEL et al) 09 April 1991, col. 3, line 35, col. 4, lines 33-35 and lines 5-10, col. 5, lines 29-40 and 18-20, col. 6. lines 65-68, col. 7, lines 1-28, col. 12, line 16.	llines	1-11, 14-19, 21- 28, 31-33 30
Υ	col. 5, lines 30-40.		
X Furt	ther documents are lested in the continuation of Box C. See patent family a	annex.	
	special categories of citod phones "I" later document published a date and not in conflict with comment defining the go end state of the art which is not the principle or theory un	vith the app	nternational filing date or priority oplication but cited to understand the invention

considered to be of particular relevance document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone earlier document published. For after the international filling date "E" document which may three contex on priority claims, or which is cited to establish the publication care of another citation or other special reason, as specified "1." document of particular relevance; the claimed invention cannot be considered, to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an ear dis losure, use, exhibition or other "()" document published prior  $\gamma$  , the  $\beta$  -creational filling date but later than the priority date claim document member of the same patent family .,,.. Date of mailing of the international search report 2 9 MAY 2002 Date of the actual completion of the international search

29 MARCH 2002

Authorized officer

Name and mailing address of the ISA/US Commissioner of Patents and Tra iomarks Box PCT

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		PCT/US02/	00119	
(Continuation). DOCUM	ENTS CONSIDERED TO BE I	RELEVANT		
ategory* Citation of c	Citation of document, with indication, where appropriate, of the relevant passages			
US 2.951.0	43 A (BLANK) 30 August	1960, col. 8, lines 20-32.	1, 11, 18, 21, 28 32	
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